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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,552	11/24/2003	Masahiko Amano	056207.52935US	1816
23911 7	590 09/09/2005		EXAM	INER .
CROWELL & MORING LLP			GRANT, ROBERT J	
INTELLECTU	AL PROPERTY GROUP			
P.O. BOX 1430	00		ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20044-4300		2838	

DATE MAILED: 09/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/718,552	AMANO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Robert Grant	2838	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statute to reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO ute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 24	November 2003.		
2a) This action is FINAL 2b) ☑ Th	is action is non-final.		
3) Since this application is in condition for allow	rance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-6 is/are pending in the application	l.		
4a) Of the above claim(s) is/are withdr	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on 24 November 2003 is	/are: a)⊠ accepted or b)[] objected to by the Examiner.	
Applicant may not request that any objection to the	***		
Replacement drawing sheet(s) including the corre	· ·	• • •	
11)☐ The oath or declaration is objected to by the I	Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docume			
2. Certified copies of the priority docume			
3. Copies of the certified copies of the pr		received in this National Stage	
application from the International Bure * See the attached detailed Office action for a lie		received	
oce the attached detailed office action for a life	st of the defined dopies no	. reserved.	
Attachment(s)	_		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) (s)/Mail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 2 pages (11-24-03). 7-29-05 		Informal Patent Application (PTO-152)	

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by Hikita et al. (US 5,608,309).

As to claim 6, A power supply system having a power supply including an electric generator (Figure 1, element 3) and a battery (figure 2, element 4), and a power control unit for controlling electric power supplied from said power supply to an electric load (figure 1), wherein said power supply system has battery condition sensing means for sensing the operative condition of said battery (Figure 1, battery voltage), and said power supply system has a function in which a target voltage value to electric generator is commanded based of the battery condition sensed by said battery condition sensing means (Column 3, lines 7-9).

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Paul et al. (US 5,198,698) in view of Kikuchi (US 6,600,293).

As to Claim 1, Paul discloses a power supply system having a power supply including an electric generator (Figure 7, element 62) and a battery (element 45), and a power control unit for controlling electric power supplied from said power supply to an electric load (element 70), wherein said power supply system has battery condition sensing means for sensing the operative condition of said battery and load condition sensing means for sensing the operative condition of said electric load (Column 4, lines 8-9), and said power supply system has a function in which the variation of the power supply voltage at the time of the operative requirement of said electric load is estimated based on the condition of said battery and the operative condition of said electric load (Column 8, lines 28-34). Paul does not expressly disclose where in the electric load is limited when the estimated electric power supply voltage is smaller than a predetermined value. Kikuchi discloses the current of the electric load is limited when said estimated electric power supply voltage is smaller than a predetermined value (Column 6, lines 18-21). It would have been obvious to a person having ordinary skill in the art at the time of this invention to take the teaching of Kikuchi and limit the output to the load in order to protect the power supply system for being damaged.

As to Claim 2, Paul in view of Kikuchi disclose the power supply system according to claim 1 wherein the variation of said power supply voltage is estimated in

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consideration of the maximum output current of said electric generator (Column 7, lines 49-63).

3. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paul in view of Kikuchi in further view of Nordentoft (US 6,662,563).

As to Claim 3, Paul in view of Kikuchi disclose the power supply system according to claim 1. Neither Paul nor Kikuchi disclose wherein the current of said electric load is limited in consideration of the level of importance said electric load and the magnitude of current. Nordentoft disclose wherein the current of said electric load is limited in consideration of the level of importance said electric load and the magnitude of current (Column 7, lines 37-41). It would have been obvious to a person having ordinary skill in the art at the time of this invention to use the teaching of Important one the various electrical loads so that power is not wasted on a non essential device.

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As to Claim 5, Paul in view of Kikuchi disclose the power supply system according to claim 1. Paul in view of Kikuchi disclose adjusting the power supply based upon the battery condition. Paul in view of Kikuchi do not expressly disclose a using a command to make the electric load less severe. Nordentoft discloses where in the electric load is adjusted do to priority and power output conditions (Column 7, lines 37-41). Therefore it would have been obvious to a person having ordinary skill in the art at the time of this invention to combine the teachings of Nordentoft with power

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supply of Paul in view of Kikuchi and control the load based upon the battery condition, so as to prevent unnecessary strain on the power supply system.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Paul in view of Kikuchi in further view of Hsieh (US 5,811,888).

As to claim 4, Paul in view of Kikuchi disclose the power supply system according to claim 1. Paul in view of Kikuchi do not expressly disclose a time delay. Hsieh discloses a power supply wherein it has a function in which the start of operation of said electric load is delayed by a predetermined time at the time of the operative requirement of the electric load (Column 3, lines 1-22). It would have been obvious to a person having ordinary skill in the art at the time of this invention to combine the teachings of Hsieh delay circuit with the power supply system of Paul in view Of Kikuchi in order to prevent excessive load and damage to the power supply system.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Grant whose telephone number is 571-272-2727. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RG

MICHAEL SHERRY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800